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NEW MEXICO ENVIRONMENT DEPARTMENT

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BUTCH TONGATE
Cabinet Secretary

BRUCE YURDIN
Acting Deputy Secretary

Certified Mail - Return Receipt Requested

October 31, 2018

Honorable Mayor Chon Fierro
City of Bayard
P.O. Box 728
Bayard, NM 88023

RE: Minor Municipal, SIC 4952, NPDES Compliance Evaluation Inspection, City of Bayard
Wastewater Treatment Plant (WWTP), NPDES Permit No. NM0020231, October 31, 2018

Dear Mayor Fierro:

Enclosed please find a copy of the report and check list for the referenced inspection that the New Mexico Environment Department (NMED) conducted at your facility on behalf of the U.S. Environmental Protection Agency (USEPA). This inspection report will be sent to the USEPA in Dallas for their review. These inspections are used by USEPA to determine compliance with the National Pollutant Discharge Elimination System (NPDES) permitting program in accordance with requirements of the federal Clean Water Act.

You are encouraged to review the inspection report, required to correct any problems noted during the inspection, and advised to modify your operational and/or administrative procedures, as appropriate. If you have comments on or concerns with the basis for the findings in the NMED inspection report, please contact us (see the address below) in writing within 30 days from the date of this letter. Further, you are encouraged to notify in writing both the USEPA and NMED regarding modifications and compliance schedules at the addresses below:

David Long
US Environmental Protection Agency, Region VI
Enforcement Branch (6EN-WM)
1445 Ross Avenue
Dallas, Texas 75202-2733

Sarah Holcomb
New Mexico Environment Department
Surface Water Quality Bureau
Point Source Regulation Section
P.O. Box 5469
Santa Fe, New Mexico 87502

If you have any questions about this inspection report, please contact Barbara Cooney at (505) 827-0212 or at barbara.cooney@state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to read "Sarah Holcomb". The signature is fluid and cursive, with the first name "Sarah" being more prominent than the last name "Holcomb".

Sarah Holcomb

Program Manager

Point Source Regulation Section

Surface Water Quality Bureau

cc: Carol Peters-Wagnon, USEPA (6EN-WM) by e-mail
David Long, USEPA (6EN-WM) by e-mail
Nancy Williams, USEPA (6EN) by e-mail
Amy Andrews, USEPA(6EN-WM) by e-mail
David Esparza, (6EN-WM) by e-mail
Brent Larsen and Tung Nguyen, USEPA (6WQ-PP)
NMED District III, by e-mail



Form Approved
OMB No. 2040-0003
Approval Expires 7-31-85

NPDES Compliance Inspection Report

Section A: National Data System Coding

Transaction Code			NPDES										yr/mo/day					Inspec. Type		Inspector		Fac Type						
1	N	2	5	3	N	M	0	0	2	0	2	3	1	11	12	1	8	0	9	2	8	17	18	C	19	S	20	1
Remarks																												
B	A	Y	A	R	D		W	A	S	T	E	W	A	T	E	R		P	L	A	N	T						
Inspection Work Days					Facility Evaluation Rating					BI		QA		Reserved														
67			1	69	70	3				71	N	72	N	73			74	75	M	I	N	O	R				80	

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) Bayard WWTP – Take HWY 180 north from Deming aprx. 41 miles to the north side of the Town of Hurley and the south side of the town of Bayard: Turn right at North Hurley road, proceed across RR tracks to T intersection. Turn left and follow the road to a closed gate and a chain link fence to the WWTP, Open and enter through the gate and close it behind you. Grant County, New Mexico	Entry Time /Date 10:30 Hours / September 28, 2018	Permit Effective Date October 1, 2015
	Exit Time/Date 12:50 Hours / September 28, 2018	Permit Expiration Date September 30, 2020
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Jason Polk, Public Works Director 575-590-1248 Gerald Jager, Operator 575-537-3462		Other Facility Data GPS: Latitude N. 32° 44' 50" Longitude W. -108° 07' 48" SIC 4952
Name, Address of Responsible Official/Title/Phone and Fax Number Chon Fierro, Mayor (elected 2018) 575-537-3327 Cristy Ortis, City Clerk 575-537-3327 City of Bayard, New Mexico P.O. Box 728 Bayard, NM 88023	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Section C: Areas Evaluated During Inspection (S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

M	Permit	S	Flow Measurement	M	Operations & Maintenance	N	CSO/SSO
S	Records/Reports	S	Self-Monitoring Program	M	Sludge Handling/Disposal	N	Pollution Prevention
M	Facility Site Review	N	Compliance Schedules	N	Pretreatment	N	Multimedia
S	Effluent/Receiving Waters	S	Laboratory	N	Storm Water	N	Other:

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

The City of Bayard WWTP does not have a discharge outfall to Whitewater Creek as allowed by this NPDES permit. 100% of the treated effluent is either sent to the Tyrone mine or used as reuse water for the grass and vegetation at the cemetery.

For more information, see the Further Explanations part of this report.

Name(s) and Signature(s) of Inspector(s) Barbara Cooney <i>B Cooney</i>	Agency/Office/Telephone/Fax NMED/SWQB 505-827-0212 / 505-827-0160	Date 10-31-18
Signature of Management QA Reviewer Sarah Holcomb <i>Sarah Holcomb</i>	Agency/Office/Phone and Fax Numbers NMED/SWQB 505-827-0187 / 505-827-0160	Date 10-31-18

Bayard Waste Water Treatment Plant	PERMIT NO. NM0020231
SECTION A - PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS <input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED YES <input type="checkbox"/>)	
DETAILS: Bayard has a new Mayor and should update the information on the permit for the signatory.	
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
4. ALL DISCHARGES ARE PERMITTED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
SECTION B - RECORDKEEPING AND REPORTING EVALUATION	
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED No <input type="checkbox"/>)	
DETAILS: The permittee samples for the NMED Discharge Monitoring Permit, but does not discharge to surface water. However they are prepared for sampling if they need to for the NPDES permit.	
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRs.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE	<input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input checked="" type="checkbox"/> NA
a) DATES, TIME(S) AND LOCATION(S) OF SAMPLING	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
b) NAME OF INDIVIDUAL PERFORMING SAMPLING	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
c) ANALYTICAL METHODS AND TECHNIQUES.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
d) RESULTS OF ANALYSES AND CALIBRATIONS.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
e) DATES AND TIMES OF ANALYSES	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
f) NAME OF PERSON(S) PERFORMING ANALYSES.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE.	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input checked="" type="checkbox"/> NA
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR.	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input checked="" type="checkbox"/> NA
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
SECTION C - OPERATIONS AND MAINTENANCE	
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. <input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED Yes <input type="checkbox"/>)	
DETAILS:	
1. TREATMENT UNITS PROPERLY OPERATED	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA
2. TREATMENT UNITS PROPERLY MAINTAINED.	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED.	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE.	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA
5. ALL NEEDED TREATMENT UNITS IN SERVICE.	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED.	<input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> U <input type="checkbox"/> NA
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED.	<input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> U <input type="checkbox"/> NA
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA

Bayard Waste Water Treatment Plant	PERMIT NO. NM0020231
SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)	
9. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR? IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED? HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
10. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
SECTION D - SELF-MONITORING	
PERMITTEE SELF-MONITORING MEETS PERMIT REQUIREMENTS. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>No</u>). DETAILS: Facility does not discharge to surface water, samples taken for Groundwater Discharge Permit, but not for NPDES purposes.	
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
6. SAMPLE COLLECTION PROCEDURES ADEQUATE	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
a) SAMPLES REFRIGERATED DURING COMPOSITING.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
b) PROPER PRESERVATION TECHNIQUES USED.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE THE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT?	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
SECTION E - FLOW MEASUREMENT	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>No</u>) DETAILS: In line Ultrasonic Flow meter.	
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. TYPE OF DEVICE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED.	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
4. CALIBRATION FREQUENCY ADEQUATE. (DATE OF LAST CALIBRATION <u>None</u>) RECORDS MAINTAINED OF CALIBRATION PROCEDURES. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE.	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
6. HEAD MEASURED AT PROPER LOCATION.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
SECTION F - LABORATORY	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u> </u>) DETAILS: The facility has equipment for pH, TSS, TRC, Fecal Coliform bacteria sampling onsite. These are analyzed for the Groundwater Discharge Permit. If they ever need to sample for surface water they have the equipment and are prepared to do sampling and analyses of effluent.	
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA

Bayard Waste Water Treatment Plant	PERMIT NO. NM0020231						
SECTION F - LABORATORY (CONT'D)							
2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA							
3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT. <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input checked="" type="checkbox"/> NA							
4. QUALITY CONTROL PROCEDURES ADEQUATE. <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input checked="" type="checkbox"/> NA							
5. DUPLICATE SAMPLES ARE ANALYZED. ____ % OF THE TIME. <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA							
6. SPIKED SAMPLES ARE ANALYZED. ____ % OF THE TIME. <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA							
7. COMMERCIAL LABORATORY USED. <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA							
LAB NAME LAB ADDRESS PARAMETERS PERFORMED							
SECTION G - EFFLUENT/RECEIVING WATERS OBSERVATIONS. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED ____).							
OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	
RECEIVING WATER OBSERVATIONS							
SECTION H - SLUDGE DISPOSAL							
SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS. <input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>Yes</u>).							
DETAILS:							
1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY. <input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA							
2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA							
3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: _____ (e.g., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE)							
SECTION I - SAMPLING INSPECTION PROCEDURES (FURTHER EXPLANATION ATTACHED ____).							
1. SAMPLES OBTAINED THIS INSPECTION. <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA							
2. TYPE OF SAMPLE OBTAINED GRAB _____ COMPOSITE SAMPLE ____ METHOD _____ FREQUENCY _____							
3. SAMPLES PRESERVED. <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA							
4. FLOW PROPORTIONED SAMPLES OBTAINED. <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA							
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE. <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA							
6. SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE. <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA							
7. SAMPLE SPLIT WITH PERMITTEE. <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA							
8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED. <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA							
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT. <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA							

Introduction

On September 28, 2018, Barbara Cooney of the New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB) conducted a Compliance Evaluation Inspection (CEI) at the City of Bayard Wastewater Treatment Plant (WWTP). The City of Bayard WWTP has a design flow capacity of 0.6 MGD (million gallons per day) and is classified as a minor municipal discharger under the Federal Clean Water Act, Section 402, of the National Pollutant Discharge Elimination System (NPDES) permit program. It is assigned NPDES permit number NM0020231. This permit regulates the WWTP discharge to the intermittent Whitewater Creek in Water Quality Segment 20.6.4.98 a tributary of the Mimbres River according to the *State of New Mexico Standards for Interstate and Intrastate Surface Waters, 20.6.4 NMAC*. This segment includes the designated uses of livestock watering, wildlife habitat, marginal warmwater aquatic life and primary contact.

NMED performs a certain number of CEIs for the U.S. Environmental Protection Agency (USEPA), Region VI, under the NPDES permit program, in accordance with the Federal Clean Water Act. USEPA uses these inspections to determine compliance with the NPDES permit program. This inspection report is based on information provided by the permittee's representatives, observations made by the NMED inspector, and records and reports kept by the permittee and/or NMED.

Upon arrival at the WWTP at 10:30 hours, the inspector met Mr. Jason Jager, Plant Operator and Mr. Gerald Polk, Plant Manager and Public Utilities Manager, showed her credentials, explained the purpose of the inspection and conducted the entrance interview. Mr. Polk accompanied the inspector on a tour of the facility. An exit interview was conducted with Mr. Polk following the inspection. The inspector left the facility at 12:50 hours.

Treatment Scheme

The design flow for this facility is 0.6 MGD. Influent is collected from Bayard, Santa Clara, Fort Bayard, and the Village of Hurley. The headworks consist of a mechanical bar screen set on a timer, grit selector, and a lift station to send contents to the aeration basins. The aeration basins have fine bubble diffusers. Two final clarifiers are located after the post aeration unit and the aeration basins. Following the clarifiers, Ultra Violet (UV) units disinfect the effluent. UV disinfection consists of two circular units having 4 bulbs in each. When opacity gets to a low level it switches over to the other unit automatically. A portion of this effluent is sent to reuse at the cemetery and goes through a chlorination system to a holding tank. This WWTP has an NPDES permit for discharge to Whitewater Creek, however they are not allowed to discharge to this creek by the NMED – Groundwater Quality Bureau. The facility is designed to discharge to Phelps Dodge mine south of the Village of Hurley. The effluent pipe from the WWTP is enclosed and is buried under Whitewater Creek, the treated water goes through a lift station and flows through the pipe underground several miles downstream to a tailings pond of the FMI-Chino Mine. No discharge goes to Whitewater Creek normally, and there is no outfall location. In 2014 a line break occurred on the Chino Mine side of the river and large volumes of treated effluent were discharged. The NMED GWQB specifically does not allow discharge to Whitewater Creek because of legacy contamination of the soil and the potential of that being suspended and mobilized downstream, extending the area of contamination.

The permittee is in discussions with an engineer to design an alternate surface water discharge location on the other side of a ridge to the west of the WWTP to an ephemeral drainage that is not contaminated by legacy mining waste. An alternative outfall will need to be included in the NPDES permit for this location.

Solids Management

The aerobic digesters treat the solids and wasting occurs for approximately an hour each day from the clarifiers to the digesters. Three drying beds allow for air drying of the solids. The facility currently has no belt press and the volume of solids can be too great for the capacity of the drying beds during the monsoon season and the winter. The dried sludge is taken to the Silver City landfill for final disposal.

Further Explanations

Note: The sections are arranged according to the format of the enclosed EPA Inspection Checklist (Form 3560-3), rather than being ranked in order of importance.

Permit

Overall Rating For Permit (Marginal)

Permit Requirements For Permit

The permit Requires in Part III:

11. SIGNATORY REQUIREMENTS

All applications, reports, or information submitted to the Director shall be signed and certified.

a. ALL PERMIT APPLICATIONS shall be signed as follows:

- (3) FOR A MUNICIPALITY, STATE, FEDERAL, OR OTHER PUBLIC AGENCY - by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

(a) The chief executive officer of the agency, or

(b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

MINOR - SEWAGE SLUDGE REQUIREMENTS

INSTRUCTIONS TO PERMITTEES

Select only those Elements and Sections which apply to your sludge reuse or disposal practice.

The sludge conditions do not apply to wastewater treatment lagoons where sludge is not wasted for final reuse/disposal. If the sludge is not removed, the permittee shall indicate on the DMR "No Discharge".

Although reporting is not required at this time, this permit may be modified or revoked and reissued to require an annual DMR.

Findings For Permit

1. The city has a new mayor, The Honorable Chon Fierro and notice should be sent by the permittee, to EPA and NMED about the changes in the responsible party and the designated signatory for reporting purposes. NetDMR should also be updated for this change.

2. The permit section IV for solids removal establishes requirements based on a lagoon system. This section of the permit is not reflective of the current activated sludge plant for solids testing and reporting. Under the current permit, annual sludge testing reports are not required. Though a modification to reflect the change of solids management should be made to this permit.

The permittee is collecting sampling data on the sludge as required by the receiving landfill. Those information have not been reported to NMED nor EPA.

Record Keeping and Reporting

Overall Rating For Record Keeping and Reporting (Satisfactory)

Self-Monitoring

Overall Rating For Self Monitoring (Satisfactory)

Operations and Maintenance

Overall Rating For Operations and Maintenance (Marginal)

Permit Requirements For Operations and Maintenance

The permit states in Part III.B.3.a:

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by permittee as effectively as possible and in a manner which will minimize upsets and discharges of excessive pollutants and will achieve compliance with the conditions of this permit...

Findings for Operations and Maintenance:

1. Inadequate operational staff, only two operators are running this plant and are often called to do other maintenance in the city. Additional operators are necessary to allow for sick leave and vacation time. Information on Operator Certification can be found at the State's Utility Operator Certification Program website:

https://www.env.nm.gov/drinking_water/utility-operator-certification-program/

2. Clogged or inoperable diffusers in the aeration basin, needs cleaning and/or replacement.

3. Solids loading within the aeration basins and the secondary clarifiers is very high especially during the monsoon and winter seasons when the sludge drying beds stay wet because of the weather.

Flow Measurement

Overall Rating for Flow Measurement (Satisfactory)

Permit Requirements For Flow Measurement

The permit states, in Part III.C.6

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes.

Findings for Flow Measurements:

The effluent flow meter is an inline system. There is no outfall and the discharge line is an enclosed pipe that carries the treated wastewater to the Chino Mine.

Laboratory

Overall Rating For Laboratory (Satisfactory)

Effluent And Receiving Water

Overall Rating For Effluent And Receiving Water (Satisfactory)

SLUDGE HANDLING

Overall Rating For Sludge Handling (Unsatisfactory)

Findings for Sludge Handling:

The volume of solids produced by this activated sludge wastewater treatment plant is greater than the capacity of the sludge drying beds, therefore solids are being held in the treatment basing at a higher concentration than is optimal. It is advisable for the facility to either increase the area for sludge drying beds, or to investigate using a sludge belt press for dewatering, so dryer solids may be removed more often for final disposal.

**NMED/SWQB
Official Photograph Log
Photo # 1**

Photographer: Unknown

Date: September 28, 2018

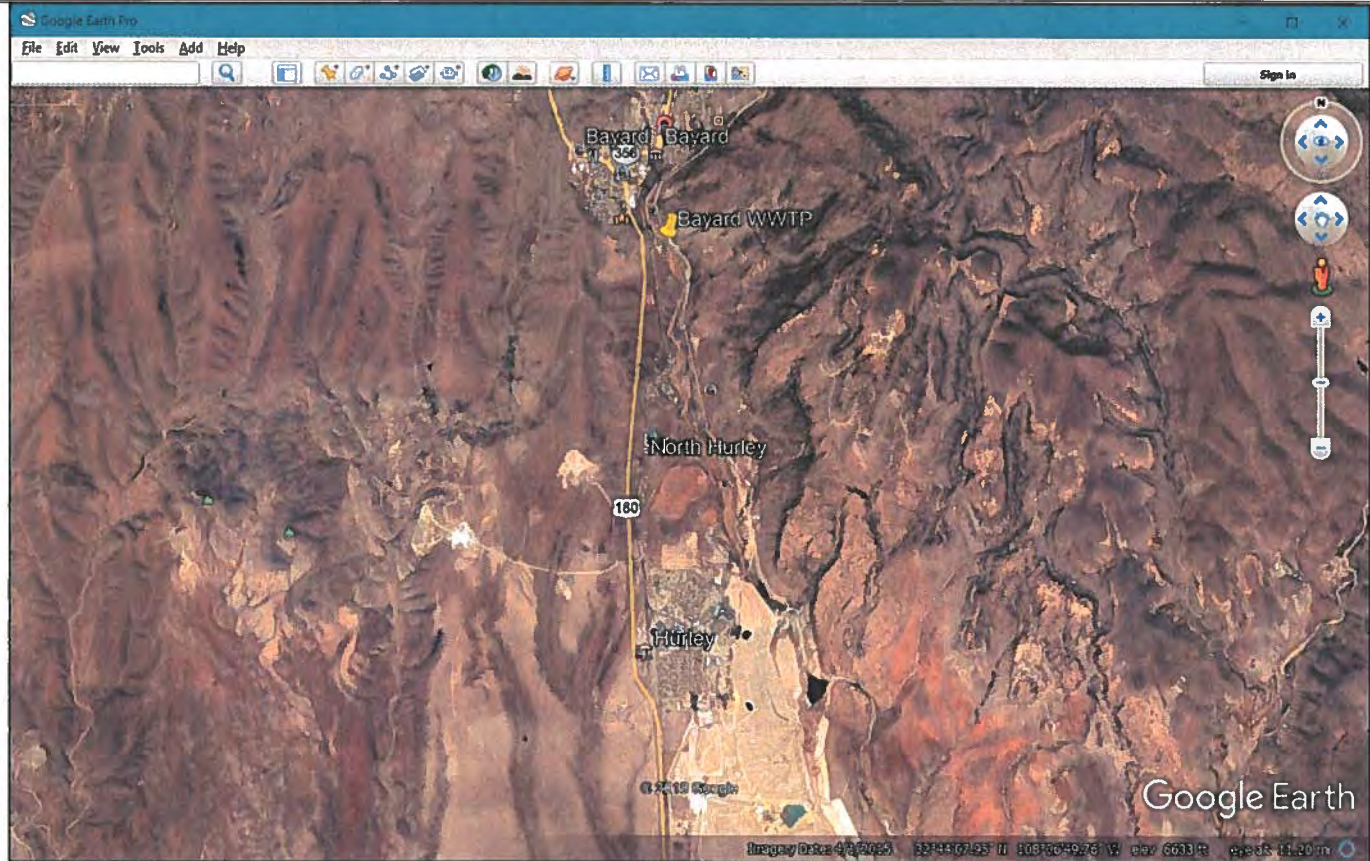
Time: Unknown

City/County: Bayard / Grant

State: New Mexico

Location: City of Bayard Wastewater Treatment Plant

Subject: Aerial View from Google Earth of the locations of the Bayard WWTP, Whitewater Creek and ponds at the FMI-Chino mine. To the West (left in the photo) of Bayard is a proposed site for an alternate discharge location away from Whitewater Creek. Lines to that location have not been designed at the time of this inspection.



NMED/SWQB
Official Photograph Log
Photo # 2

Photographer: Unknown

Date: September 28, 2018

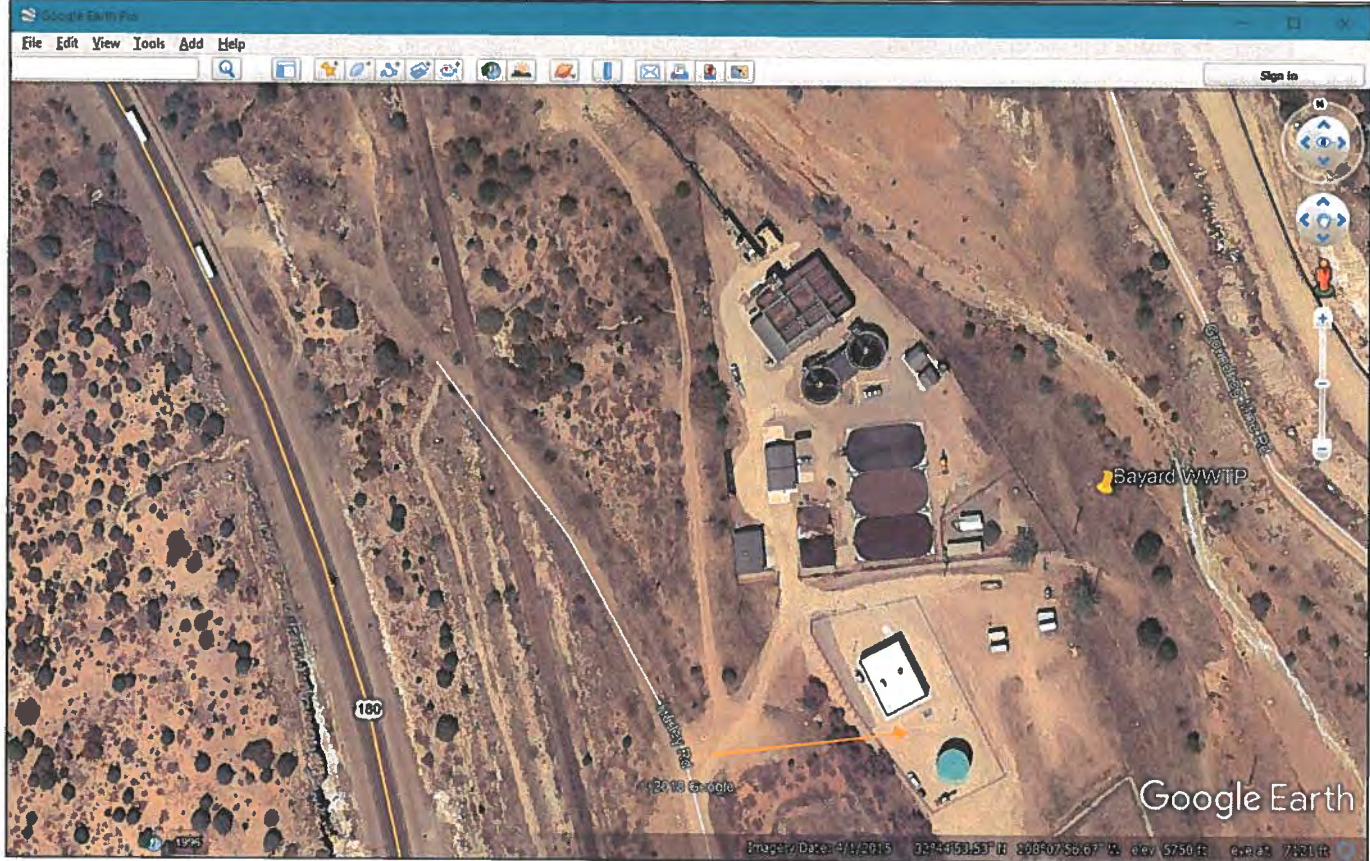
Time: Unknown

City/County: Bayard / Grant

State: New Mexico

Location: City of Bayard Wastewater Treatment Plant

Subject: Aerial View of the Bayard WWTP treatment units and of Whitewater Creek. Note the white staining in the creek is from a discharge line on the Chino Mine side of the creek and not from the direct discharge by the WWTP.



**NMED/SWQB
Official Photograph Log
Photo #3**

Photographer: B. Cooney

Date: September 28, 2018

Time: 10:58 Hours

City/County: Bayard / Grant

State: New Mexico

Location: City of Bayard Wastewater Treatment Plant

Subject: Scada system shows all the treatment units, also a call out system is in place for any problems that occur after normal business hours.



**NMED/SWQB
Official Photograph Log
Photo #4**

Photographer: B. Cooney

Date: September 28, 2018

Time: 12:21 Hours

City/County: Bayard / Grant

State: New Mexico

Location: City of Bayard Wastewater Treatment Plant

Subject: Influent line to the treatment basins.



**NMED/SWQB
Official Photograph Log
Photo # 5**

Photographer: B. Cooney

Date: September 28, 2018

Time: 12:20 Hours

City/County: Bayard / Grant

State: New Mexico

Location: City of Bayard Wastewater Treatment Plant

Subject: Influent grit removal. The grit is sent to the Silver City landfill after passing the paint filter test.



**NMED/SWQB
Official Photograph Log
Photo # 6**

Photographer: B. Cooney

Date:

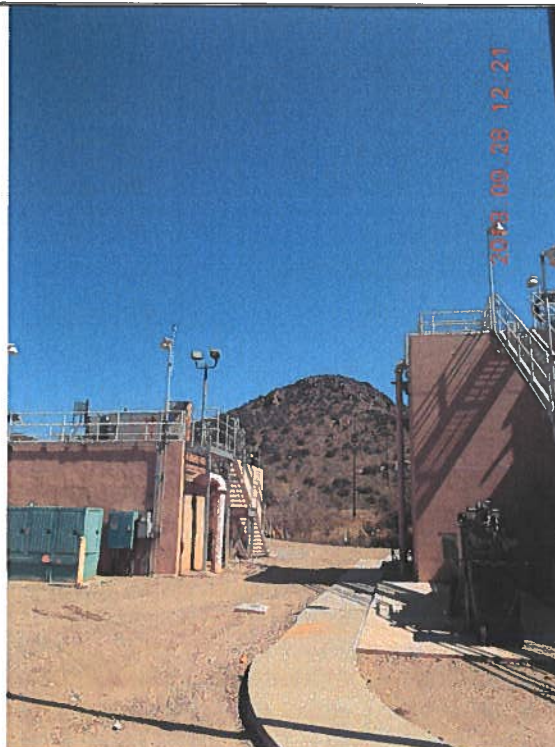
Time: 12:21 Hours

City/County: Bayard / Grant

State: New Mexico

Location: City of Bayard Wastewater Treatment Plant

Subject: Above ground treatment units, backup generator.



**NMED/SWQB
Official Photograph Log
Photo # 7**

Photographer: B. Cooney

Date: September 28, 2018

Time: 12:19 Hours

City/County: Bayard / Grant

State: New Mexico

Location: City of Bayard Wastewater Treatment Plant

Subject: The effluent pipe from the City of Bayard WWTP is enclosed and is buried under Whitewater Creek, the conveyance is underground several miles downstream to a tailings pond of the Chino Mine. No discharge goes to Whitewater Creek normally, and there is no outfall location. In 2014 a line break occurred on the Chino Mine side of the river and large volumes of treated effluent were discharged. The NMED GWQB specifically does not allow discharge to Whitewater Creek because of legacy contamination of the soil and the potential of that being suspended and mobilized downstream, extending the area of contamination.



**NMED/SWQB
Official Photograph Log
Photo # 8**

Photographer: B. Cooney

Date: September 28, 2018

Time: 12:18 Hours

City/County: Bayard / Grant

State: New Mexico

Location: City of Bayard Wastewater Treatment Plant

Subject: Effluent Pipe and Whitewater Creek on the far side of the fence. The Creek was dry at the time of this inspection.



**NMED/SWQB
Official Photograph Log
Photo # 9**

Photographer: B. Cooney

Date: September 28, 2018

Time: 12:16 Hours

City/County: Bayard / Grant

State: New Mexico

Location: City of Bayard Wastewater Treatment Plant

Subject: above ground units.



**NMED/SWQB
Official Photograph Log
Photo # 10**

Photographer: B. Cooney

Date: September 28, 2018

Time: 12:14 Hours

City/County: Bayard / Grant

State: New Mexico

Location: City of Bayard Wastewater Treatment Plant

Subject: Subject: Sludge Drying Beds – two of the three are very full. The facility relies on air drying and this method limits the amount of solids to be wasted. There is no belt press for dewatering. The aeration basins appeared to be very heavily loaded with solids even though wasting occurs daily. This becomes very problematic in the monsoon season and during the winter when evaporation rates are low. Operators indicated that requests to City management have been made for the building of an area and purchase of a sludge belt press.



**NMED/SWQB
Official Photograph Log
Photo # 11**

Photographer: B. Cooney

Date: September 28, 2018

Time: 12:25 Hours

City/County: Bayard / Grant

State: New Mexico

Location: City of Bayard Wastewater Treatment Plant

Subject: Main office and lab building and in the distance is the reuse chlorination building and the holding tank for reuse water.

